SPRAYED INSULATION, INC.

method of application

Spraykote

Trademark Reg. U. S. Pat. Off.

industrial fibre insulation

approved by Board of Standards and Appeals,
New York City, for acoustical thermal insulation

industrial application

SprayKote characteristics

SprayKote is an ideal material for thermal insulation, it is applied to surfaces of wood, metal, glass, rock lath, concrete, plaster and materials previously coated with oil paint.

SprayKote consists of six different asbestos and mineral wool fibres. The binders, while water soluble, are not affected by moisture condensation, steam, or roof leaks—once they are set.

Sprayed Insulation, Inc. has its own fibre processing plant in which the different fibres are refined and blended. This concentration of effort assures uniform quality, imperative in this type of work.

SprayKote is applicable in most types of building construction, corrugated metal, transite, masonry or others. In ship insulation, SprayKote is widely used for the insulation of bulkheads and deckheads; it is protected by expanded metal lath with hard plaster finish. It also provides excellent sound deadening and eliminates troublesome condensation.

Because SprayKote is monolithic, it eliminates cracks, seams and holes. In industrial insulation work, SprayKote is generally left unpainted as its naturally light color has a high light reflection factor and excellent appearance. SprayKote is verminproof, water-repellent, rust-resistant, wind-tight and fireproof. It is light in weight and withstands vibration.

application: SprayKote is applied by a spray gun—in thickness of 1 inch or more, depending upon insulating results desired. After the proper thickness is applied, the SprayKote is tamped for texture giving a rough travertine finish perfectly satisfactory for industrial work.

SprayKote is applied by licensed applicators throughout the United States, employing skilled workmen experienced in this type of application.

dust control: The tremendous advantage of SprayKote over similar products is that the patented process practically eliminates the troublesome dust heretofore present during application. This is accomplished by giving the surface a positive (or cationic) electrical charge and the material being applied a negative (or anionic) electrical charge. The resultant action is about the same as a magnet drawing iron fillings. Not only does the SprayKote process practically eliminate the dust, but it also provides an increase speed of application affording a more uniform and finer texture; a stronger internal strength.

for thermal insulation

SprayKote is frequently applied to the underside of a floor directly over an excavated and unheated area; to ceilings over loading platforms; to areas tunneled under a building for railroad tracks and driveways. The floor over such unheated areas is often most uncomfortable—even though a wall thermometer registers 70° F.

SprayKote is also used on ceilings of boiler rooms. Without this insulation, the constant soaking heat in such areas makes overhead rooms almost untenable. An application of SprayKote 1½ inches thick—assures trouble-free insulation, thereby eliminating this condition.

SprayKote—in 1 inch thickness—applied to the side walls and ceilings of metal buildings gives insulation that is wind-tight, rust-resistant and fireproof. It reduces the heat loss by as much as 75%, making buildings warm and comfortable in winter, cool in summer. In addition, it gives high sound absorption, necessary today in modern production.

heat loss characteristics

construction	detail	not insulated	SprayKote insulated ½ in.	1 in.	1½ in.	2 in.
built-up roofing on concrete roof slab		.72• .64▪	... ...	.18• .17▪	.13• .13▪	.10• .10▪
built-up roofing on precast cement tile supported on steel purlins		.84	...	.19	.13	.10
corrugated metal or transite wall		1.50	.37	.21	.14	.11
wood stud side wall		.26	.15	.12	.10	.08

•4" concrete slab ▪6" concrete slab

for condensation control

Condensation caused by warm air striking cold surfaces can be effectively controlled usually by 1 inch of SprayKote. This is done by applying the initial SprayKote binder, blowing a *thin coat* of the SprayKote fibre and trowling into a gummy mass some ⅜ inches in thickness effectively providing a moisture barrier. The SprayKote insulation is then applied over the barrier to the required thickness. By this method the building is protected against heat leakage as well as against ice-forming condensation.

Condensation control is considered essential to the well-being of workers in laundries, cold-storage, bottling and steam sterilizing plants and similar industries. In addition, it provides a definite protection against increased operating expenses due to excessive moisture and heat loss.

Low cost markets and stores can be built at less cost by applying "SprayKote" directly to the masonry side walls above a 6½ foot height. This procedure insulates, damp-proofs and gives a finish at the same time, saving the expense of lath, plaster and paint. "SprayKote" applied ⅜ inches to a plasterboard ceiling is the proper treatment for such areas.

for fire prevention

SprayKote, being noncombustible, provides protection against fire, it is especially adaptable to application on metal ducts, beams and girders.

Quoting from the bulletin of the Board of Standards and Appeals, City of New York, dated June 18, 1946: "Commissioner Charles M. Blum and Mr. Hugh P. Fox of the Engineering Staff of the Board inspected an installation of SprayKote on the ceiling of the first floor of a restaurant located at 148 East 48th Street, Manhattan—after a break in the plumbing on the floor above occurred, causing the ceiling to become soaked. It was apparent that the treated ceiling dried out without any evidence of deterioration."

Inspection was also made of a SprayKote treated space between the beams of the ceiling of the kitchen and to an air-conditioning duct at the same location. Application to the ceiling was ⅞ inch thick and to the duct, ⅜ inch. Inspection was made after a fire and indicated that the portion of the ceiling between the beams which was treated was undamaged and that plaster on the beams which had not been treated had fallen away from the concrete beams.

fire resistive test

The J. L. Finck Laboratories tested a sample of SprayKote (1102 fibre), one inch thick, mounted on a ⅜ inch plaster board, 14 inches square. Except for slight discoloring, the exposed surface of the SprayKote remained intact, while the plaster board disintegrated. The following results were observed:

temperatures in degrees F.

	furnace	bet. SprayKote & plast. board	surface of plast. board
30 min. time	1602	460	238
60 min. time	1625	910	800

SprayKote
industrial application

specification

Suggested wording for specifications of "SprayKote" for thermal insulation purposes:

Material shall be "SprayKote" as manufactured and applied by Sprayed Insulation, Inc., Newark, New Jersey.

"SprayKote" shall be applied by gun method direct to surface provided, to a thickness of....., having a "K" factor of 0.261 Btu/hr./sq. ft./inch thickness/degrees F. temperature differential.

The surface for the application shall be free from oil, grease, rust or other substance likely to impair adhesion.

In the case of corrugated buildings, the application, unless otherwise specified, shall conform to corrugations of existing metal sheathing.

The fibre shall be "SprayKote" 1102 and the binder a synthetic resin, which after setting, shall not be affected by water, steam, moisture or condensation.

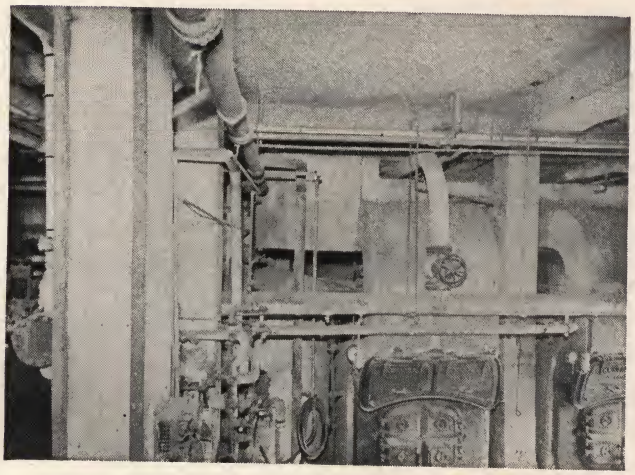
The above specified material shall be applied and finished as follows:

> An initial coat of anionic binder shall be applied by spraygun method to surface to be treated and before this has set, "SprayKote" cationic fibre and binder in sufficient quantity to finish to specified thickness shall be blown on. This shall then be tamped to rough industrial texture and oversprayed with final coat of "SprayKote" binder.

typical application

Fire Department Repair Shop	New York, N. Y.
Celanese Corp.	Narrows, Virginia
Bullocks Dept. Store	Pasadena, Calif.
Reynolds Metals Co.	Harrison, N. J.
Ciba Pharmaceutical Co.	Summit, N. J.
Public School 157	Queens, N. Y.
Public School 22	Bronx, N. Y.
Duralac Chemical Co.	Newark, N. J.
Chris-Kraft Instrument Co.	Union, N. J.
Ballentine & Sons	Newark, N. J.
The Hercules Company	Jersey City, N. J.
Wilkata Folding Box Co.	Kearny, N. J.
Photo Products Co., Div. of du Pont de Nemours Co.	Parlin, N. J.
Naval Reserve Armory	Clifton, N. J.
Naval Reserve Armory	Elizabeth, N. J.

numerous reserve Armories throughout the U. S. such as Clifton and Elizabeth, N. J.



advisory service

Sprayed Insulation, Inc., has inaugurated its SPRAYKOTE service to assist architects and contractors in handling different problems of thermal insulation, acoustical correction, sound deadening and condensation control. This service rendered by a staff of alert, highly competent men, thoroughly conversant with modern building methods. For complete information about the SPRAYKOTE advisory service contact the national distributor or the representative in your territory.

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New York City, telephone: Enterprise 6407

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